

**Amendments to the Specification:**

Please replace paragraph [0044] of the application as filed with the following amended paragraph:

[0044] After the total number of tasks ( $V$ ) present on the line 50 is distributed in operation 62, the local mean number ( $M_r$ ) of tasks for each  $PE_r$  is calculated in operation 63. In the current embodiment, the local mean value is computed using the rounding function

$M_r = \text{Trunc}((V + E_r) / N)$  (where  $M_r$  represents the local mean for  $PE_r$ ,  $N$  represents the total number of PEs 30 in the line 50, and  $E_r$  represents a number in the range of 0 to  $(N-1)$ ) to ensure that no instructions are lost or “gained” during the rounding process if the value of  $V \div N$  is not

an integer (i.e., to ensure that  $V = \sum_{i=0}^{i=N-1} M_i$ , where  $N$  represents the number of PEs 30 in the

line 50, and  $M_i$  represents the local mean of tasks associated with a local  $PE_r$  in the line 50). The rounding function is discussed in more detail in U.S. Patent Application Serial No. [[\_\_\_\_\_]]

10/689,382 entitled “Method for Rounding Algorithm Values for a Plurality of Parallel Processing Elements” filed [[\_\_\_\_\_]] October 20, 2003 (DB001064-000, ~~Micon no. 02-1269~~) and incorporated in its entirety by reference herein.